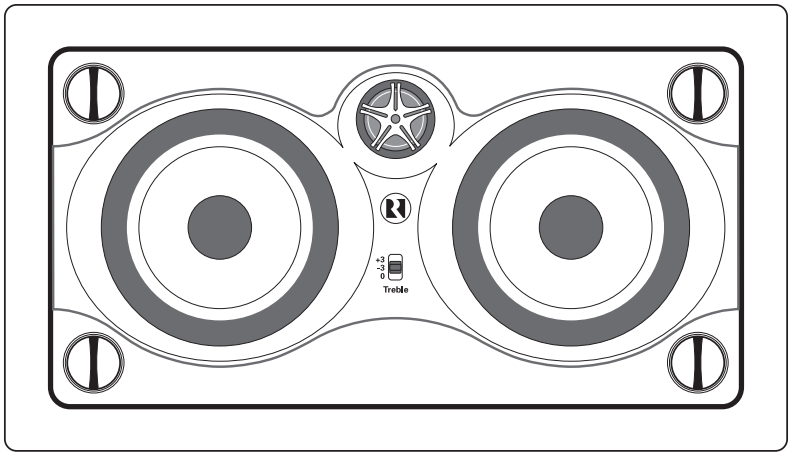
Russound®




# Acclaim™ 7 Series

## In-wall Iso-Mount™ LCR Loudspeaker
## Installation Manual

## Introduction

Thank you for selecting the Russound Acclaim 7 Series In-wall LCR Speaker. Like all Russound speakers, they combine acoustic technology with durability and will provide years of musical enjoyment. The Acclaim line provides solutions for background music, dedicated music listening and home theater. The 7 Series combines premium acoustic materials, with our most advanced drivers to deliver exceptional performance in every application. From background music to spectacular surround sound, Acclaim speakers offer the finest sound around.

Iso-Mount technology takes the Acclaim 7 Series beyond ordinary In-wall speakers by reducing undesirable wall vibrations with a unique thermopolymer isolation mounting gasket. Where typical In-wall speakers lack clarity due to speaker-induced wall vibrations, Iso-Mount speakers offer dramatic sonic improvement by letting the music come only from the speakers, not from the wall. In addition, the innovative Twist & Lock mounting system incorporated in Iso-Mount models provides exceptionally easy and secure installation.

Iso-Mount speakers have a molded-in IR receiver opening that allows mounting an infrared remote receiver through the speaker baffle. The polymer plug is designed to pop out for screw-in installation of an IR receiver such as the Russound SaphIR™ Eye without damaging the speaker baffle.

In addition to Iso-Mount and Twist & Lock features, Russound Acclaim 7 Series speakers feature high quality drivers, sophisticated crossover networks, and advanced designs to ensure optimum reproduction.

The Treble frequency adjustment switch allows you to tailor the sound of Acclaim speakers to better match the listening environment. The switch offers three settings: +3 dB, -3 dB, or 0 dB. It is located on the front baffle.

In a home theater, the LCR is intended for use in the front left, center, and right positions adjacent to the video display. In stereo audio applications, a pair of LCR speakers can be used for the left and right channels.

The benefit is that one speaker model can be used for the three front channels in a home theater. This provides identical voicing in all three positions, which improves clarity and imaging.

Because the LCR is magnetically shielded, it can be used next to CRT televisions without causing picture distortion. A separate subwoofer is recommended to reproduce the lowest frequencies.

Although intended primarily for use as front speakers, the LCR models can also be used as surround speakers in a multichannel audio system. As an alternative, any Russound in-wall or in-ceiling speaker would work well for the surround channels.

## Speaker Wire

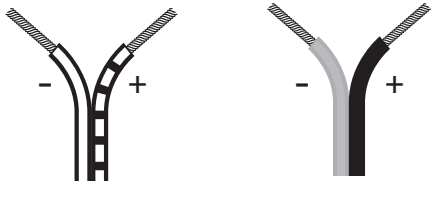
The amount of wire needed varies with speaker placement. Label speaker wires with left, right, and room location.

**What kind to use:** We recommend using Russound AW series speaker cable or any reputable brand of 16 to 12 gauge multi-stranded wiring for amplifier-to-speaker connections.

**Selecting the proper gauge:** Wire is measured in gauges: the bigger the number, the smaller the wire. The gauge of wire needed is determined by the distance between your amplifier/receiver and the speakers. The longer the run, the heavier the gauge needed. Use the following chart as a guide:

| Length | Minimum Gauge |
|---|---|
| 0' to 100' | 16 |
| 50' to 150' | 14 |
| 100' to 200' | 12 |

If the conductors are not sheathed in colored jackets, utilize the conductors consistently. The standard colors on the terminals are red Positive (+) and black Negative (-). If the wire has transparent insulation, one conductor will be copper-colored (+) and the other silver-colored (-). If the wire has an opaque insulation, the conductors are differentiated by a series of ribs or grooves, a stripe, or dotted line on one conductor. Use and mark these as the Positive (+) conductor.




Typical usage of speaker wire conductors

## Installation Tips

Wall and spacing requirements:

- Any wallboard or paneling and 2" x 4" stud wall, or lath and plaster walls.
- A minimum depth of 4" (10 cm) measured from the outside face of the mounting surface, and at least 1 cubic foot of space behind the speaker for optimal performance.

When installing the speakers, avoid:

- Brick or concrete walls where the wallboard or paneling is attached to thin furring strips.
- Walls where there are pipes, heating ducts and especially AC wiring in the general vicinity.

Incorporating optional IR receivers in the speakers will require additional wire. Consult the selected IR receiver's manual for specific wire needs.

## Speaker Wire Paths

- Avoid running speaker wires close to house electrical wiring for any distance. If you have to run them parallel, leave two feet between the wiring. Speaker wires should cross AC lines at a 90° angle.
- The entire path between speakers and amplifier should be clear and unobstructed. Confirm the placement for the wall port close to the intended location of the amplifier or receiver.
- Label speaker wires at each end with left and right and the room location.

## Amplifier Power

For home theater applications, we recommend at least 30 watts of amplifier power per LCR speaker.

## Speaker Placement and Use

Placement can make all the difference in how your Russound speaker system sounds. All rooms have different sound characteristics. Speaker location, listening location, reflective and absorbing surfaces all have a dramatic effect on the sound you hear. There are at least four related considerations that factor into the speaker layout:

- The intended use: critical listening, home theater, or background music
- The room's physical characteristics: hard, reflective surfaces or soft, absorbent textures
- The listening locations: a desired prime listening spot or a need for sound throughout the room
- The available locations: unobstructed wall and ceiling surfaces

It may happen that the ideal or desired locations for the speakers may have to be modified for feasibility.

Determine the intended use of the speakers in the room. If they are going to be your primary listening source in a room, you need to consider some other factors to insure proper imaging. The term "stereo imaging" refers to a speaker system's ability to project music so that it sounds like the performers are in a three-dimensional space between the speakers.

There are several factors to keep in mind before you begin actual installation. In general, the best acoustic performance will result if both speakers face a similar type of surface, are placed in similar positions on the same wall or ceiling, and are mounted to the same type of material with equal cavity volume.

Bass frequencies are emphasized when an In-wall speaker is placed close to a corner. This tends to make male voices sound deeper and may muddy some sounds such as sound track dialogue. Avoid placing just one speaker in a corner and another on a long flat wall.

Treble is emphasized when it bounces back from reflective surfaces such as large windows. Conversely, highs tend to be muffled by soft surfaces such as drapes, rugs, upholstered furniture, etc. The best situation is a mix of absorptive and reflective surfaces, which can be achieved by adding throw rugs or insulated drapes to a reflective room.

The tweeters should be placed at ear level of the intended user. In a horizontal orientation, the speaker can be mounted with the tweeter at the top or bottom. In a vertical orientation the speakers should be mounted with the tweeters positioned to the outside and aimed toward the listener.

## Home Theater

For home theater, wall or LCR speakers for the front three channels create the illusion that the sound is coming from the screen, which makes the viewing experience more involving and believable. In a multichannel audio system for a home theater, one LCR should be installed horizontally above or below the video display for the center channel, and two should be installed vertically to the left and right of the display for the main front channels.

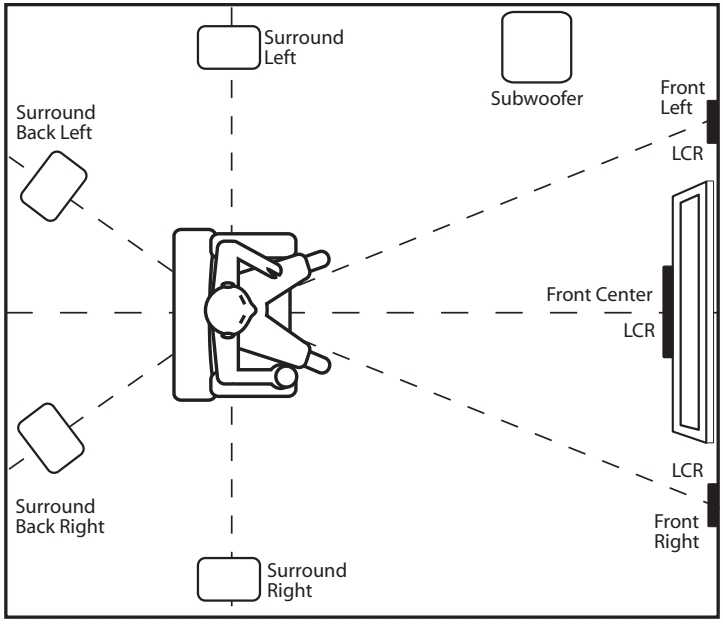
The center-channel speaker should be as close to ear level as possible; thus, if the video display is mounted high, the speaker should be below it. If the display is low, the speaker should be above it. The tweeter should then be angled up or down as needed so that its axis points toward the ear level of the listeners.

The left and right speakers should be about 3' or 4' to either side of the screen. Left and right speakers placed too close together or too far apart dissipate the illusion of being "in the action" on the screen. For best results the tweeters should be positioned on the outside, away from the video display.

## Placement near corners

Placing a speaker near a corner of a room can cause sonic reflections off the side wall. This can result in a loss of clarity and poor imaging. Accordingly, we do not recommend placing the LCR near a corner unless the side wall is covered with sound-absorptive material.

Generally, the best acoustic performance will result if the left and right speakers are placed in similar positions on the same type of wall surface.



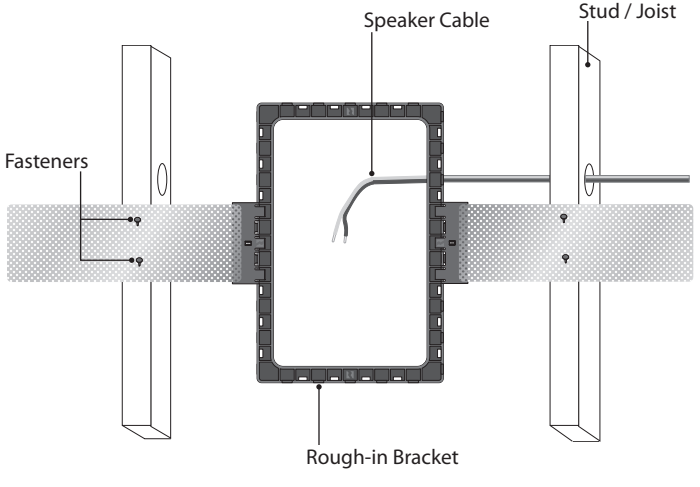

Typical front wall LCR speaker placement
*(Place tweeters at approximate ear level and aim at intended listener position)*

### Pre-wire or Pre-construction

Locate all obstructions (AC wiring, plumbing, duct work, and studs). Route the speaker wire to the speaker location avoiding all obstacles.

Russound offers Speaker Rough-In Brackets that can be fastened to the adjacent studs. Use a small level to make sure the bracket is straight. Once the dry wall is installed, the opening is cut out. There are holes molded into the bracket for speaker wire tie-off to keep the wire from being lost during construction.

Make sure the speaker cutout (hole) doesn't extend further than ¼" (0.6 cm) from the inside of the mounting bracket.

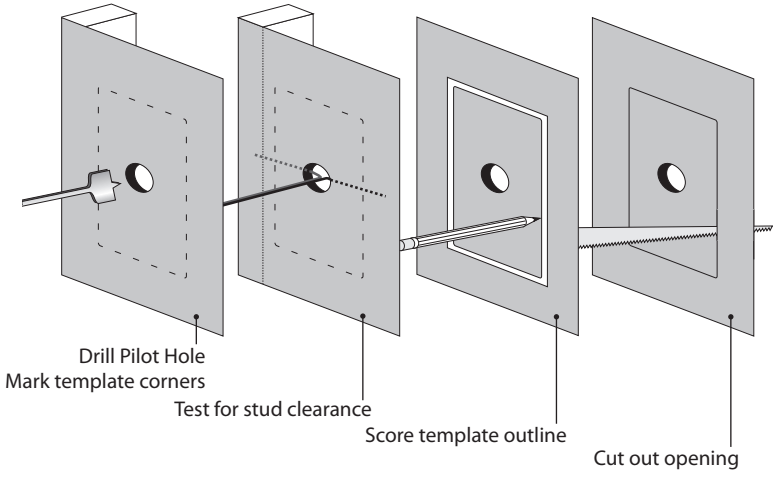



Bracket Installation

### Retrofit Installation

Locate existing pipes, duct work, and AC wiring before cutting any holes in the walls.

1. Center the cardboard template between adjacent joists, avoiding all wiring, pipes, duct work, and lightly mark the corners with a pencil. Then use a keyhole/drywall saw or motorized spiral-cut tool to make the opening.
2. Score the outline of the template with a utility knife to prevent chipping. If dealing with lath and plaster or thick paneling, drill 1" (2.5 cm) holes in several places around the pencil outline. Use a fine-toothed keyhole saw or hacksaw blade with slow strokes to saw through and remove the inner surface.




Retrofit Installation

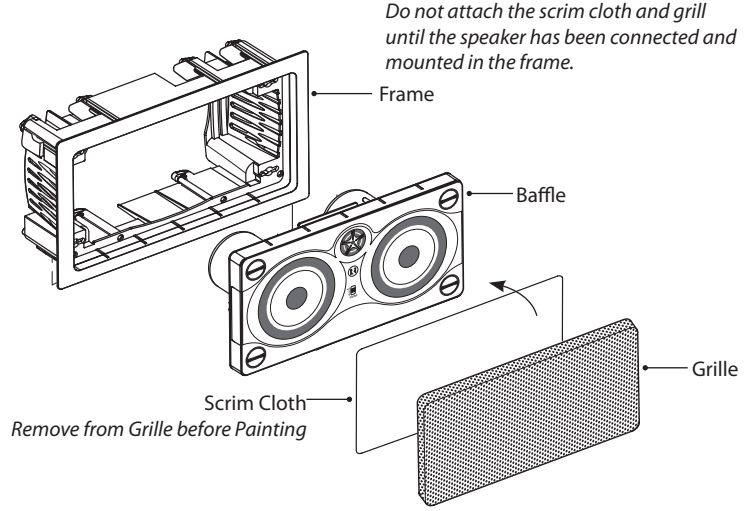
### Additional Tips / Considerations

- If possible, run speaker wires after AC wiring is in place to avoid induced hum caused by close parallel proximity of the two types of wire.
- Secure speaker wires in place against a stud along vertical runs with insulated staples only. Do not pierce the wire insulation. Allow a bit of slack for expansion of building materials.
- Route horizontal wire runs through holes drilled in studs at roughly equal heights.
- The speakers should not be installed until the wallboard is in place. In the meantime, leave several feet of wire coiled up and secured to the back side of the mounting frame. Excess length can be removed during final assembly.
- When installing the drywall, make sure the speaker cutout hole doesn't extend farther than ¼" (0.6 cm) from the inside of the mounting frame.
- Terminate the wires in an outlet box attached to a stud or retrofit junction box at the exit location. Utilize an outlet plate which has connections for speaker wire terminations. Russound dealers offer a full line of Russound PlateMate™ connection systems.
- After the drywall is secured and finished, install the speakers as described in this manual.

### Painting the Speaker Frame and Grille

Russound Acclaim Speakers have a designer white finish that can be painted with ordinary latex paint. Remove the speaker baffle before painting.

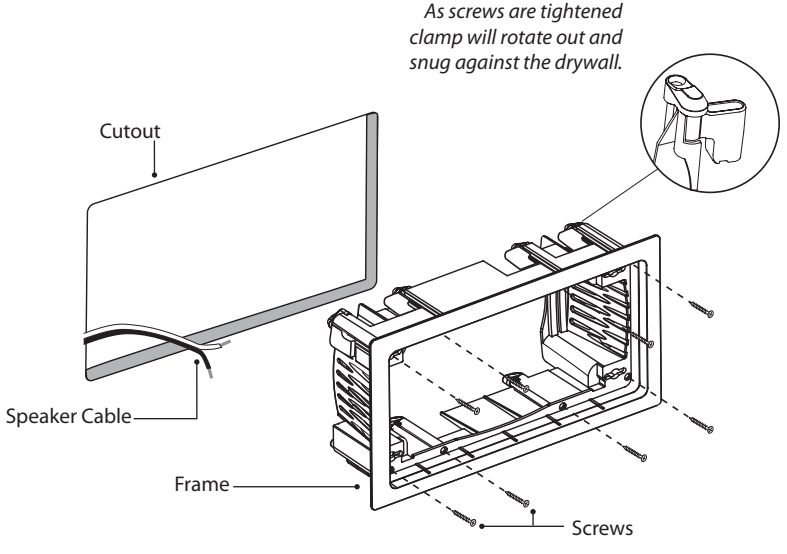
1. Remove the speaker grilles. From the back of the speaker, push the clamp (dog-ear) towards the grille to loosen it so you can pull it off. If the speaker is already installed use a slightly bent paperclip to remove the grille.
2. Twist and remove the baffle from the frame. Remove the scrim cloth from the grille and set aside.
3. Paint the outer speaker frame and grille separately. Use the same coverage on both the grille and frame. Russound recommends diluting the latex paint with water 4:1 or 5:1 proportionally.
4. While the paint is still wet on the grille, and the grille is not in the frame, use a gentle burst of compressed air against the outside surface to clear the fine holes in the mesh.
5. After the paint has thoroughly dried, continue with the installation.


*Do not attach the scrim cloth and grill until the speaker has been connected and mounted in the frame.*
Frame
Baffle
Grille
Scrim Cloth
*Remove from Grille before Painting*

LCR Speaker Assembly

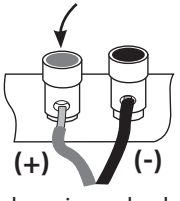
## Installation

1. Remove the grille and baffle from the speaker, if applicable. Use the clamp (dog-ear) to push the grille out from the back side.
2. Center the frame in the cutout. Tighten the screws equally until the clamps secure the frame. Do not overtighten.



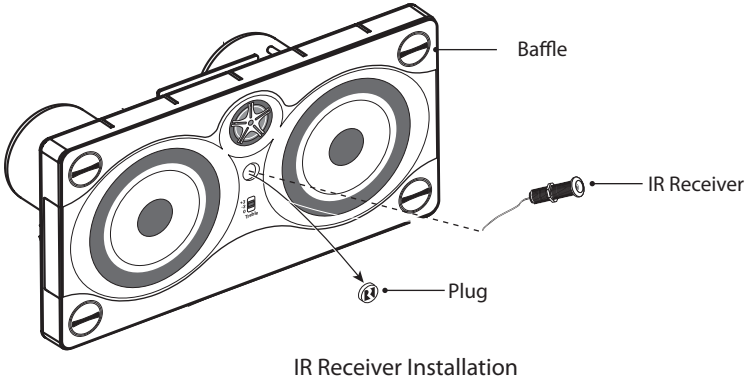

Install Speaker Frame

3. Connect the speaker wire to the speaker terminals:
   - Leave about 1' (30.5 cm) of wire extending through the cutout.
   - Pull the conductors apart so the last two inches are separated and remove ½" (1.3 cm) of insulation from the end of each conductor.
   - Twist the strands in each conductor into tight spirals.
   - Attach the speaker wires to the red and black speaker terminals. Connect the Positive (+) conductor to the Red terminal and the Negative (-) conductor to the Black terminal. Make sure that no stray strands of wire are touching the other conductor or terminal.




Insertion of speaker wire on back of speaker baffle

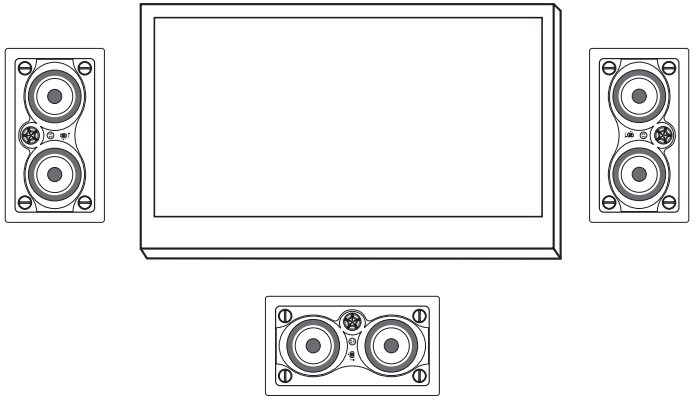
4. The speakers have a plug (the Russound Logo) that can be removed for placement of an remote IR receiver (Russound 862 Eye). See detail below.



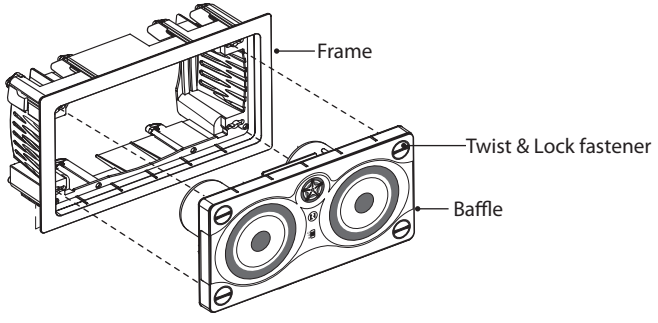

IR Receiver Installation

## Installation

5. Decide whether the tweeter placement is more at ear level with the tweeter positioned at the top or bottom of the frame. When the LCR's are mounted vertically, position the tweeter to the outside. Refer to the typical front wall configuration below.

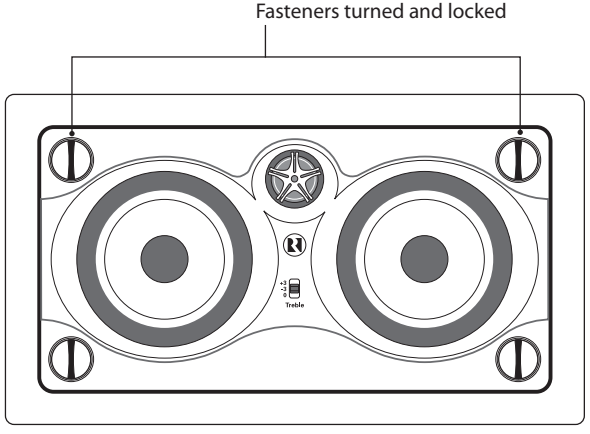


6. Place the baffle in the frame and turn the Twist & Lock fasteners a quarter turn clockwise to secure the baffle. Some force will be needed to compress the gasket. Make sure the gasket is properly seated.




Baffle Installation

**Note:** If audio equipment is available to perform a listening and functional test, do that before installing the grille.




Installed Baffle

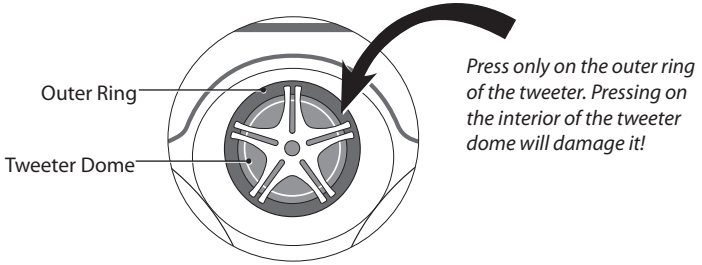
### Listening Test

It's a good idea to test everything at this point.

1. Turn on your stereo system or music source. Make sure that the volume control is turned down and that the balance control is set to center.
2. Gently turn up the volume. You should hear music coming out of your new Russound Speakers! (If you don't, refer to the troubleshooting guide.)
3. Now rotate the stereo's balance control all the way to the left. Sound should only come out of your left speaker. If it comes out of the right speaker, skip to Step 5.
4. Rotate the balance control all the way to the right. Sound should only come out of the right speaker.
5. If sound comes from the right speaker when the stereo's balance control is turned to the left, you'll need to change the connections on the back of the amplifier/receiver. **Note:** Turn off the amplifier. Swap the wires attached to the left and right speaker terminals.

### Tweeter Adjustment

The tweeters pivot and should be aimed toward the intended listener. Before installing the grille, gently press on the outside of the tweeter ring as shown.


Outer Ring
Tweeter Dome
*Press only on the outer ring of the tweeter. Pressing on the interior of the tweeter dome will damage it!*

Tweeter Adjustment

### Adjusting the Frequency Response

Both models are equipped with a Treble frequency adjustment switch. Move the switch to change the setting.

+3 dB: Increases the loudness of the selected frequency

-3 dB: Reduces the loudness of the selected frequency

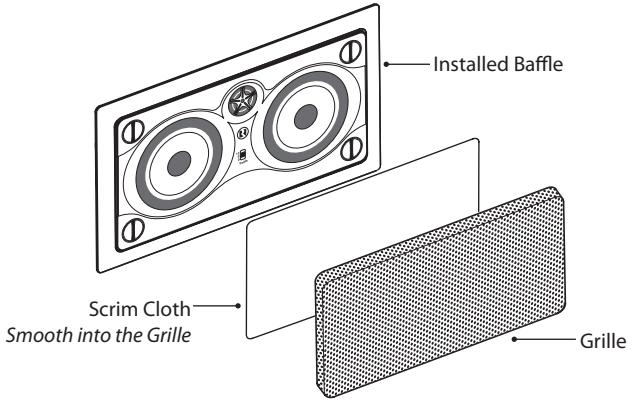
0 dB: The frequency remains neutral (recommended start setting)

**Treble**

Frequency Adjustment

### Grille Installation

After all adjustments and listening tests are made install the grille. Insert the speaker grille by placing it over the speaker baffle and aligning its edges in the frame. Press gently into place, taking care not to scratch the frame finish or bend the grille. In most installations, the grilles will fit tightly without causing vibration. If any audible vibration does occur, use the pre-cut lengths of special damping/adhesive material.




Grille Installation

## Configuring Your Receiver

Your home theater receiver or surround processor most likely has a choice of settings for different types of speakers. If your receiver or processor has an auto setup procedure, you will probably get the best results using the auto setup. If you use a manual speaker setup procedure, you will get the best results by setting the LCR speakers to the "Small" setting if you are using a subwoofer, or the "Large" setting if you are not using a subwoofer.

## Troubleshooting Guide

Before returning your Russound speakers for service, try these simple remedies first.

**No sound from either speaker:**

- Incorrect source selected on receiver or preamplifier.
- Mute button pressed on receiver.
- Wrong speaker output selected; many receivers have an "A" and "B" speaker switch. Make sure it is in the correct position.
- In-wall Volume control not turned up or wired incorrectly.
- If using a speaker selector, room/station not turned on or improperly connected.

**No sound from one speaker:**

- Unsecured connection at either the speaker or amplifier - double-check all connections.
- Balance control turned all the way left or right - return it to center.
- Bad connecting cable between sound source and amplifier - try a new cable.
- Check for stray wire strands crossing the speaker terminals.
- Defective speaker - contact your Russound dealer or call Russound Tech Support at 603.659.5170.
- Any other problems not listed, discuss with your dealer or call Russound.

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Model:** | **7W**55LCR |
| **Description:** | Passive 2 way LCR Iso-Mount Loudspeaker |
| **Woofers (2):** | 5.25" (13.3 cm) Aluminum |
| **Tweeter:** | Pivoting 1" (25 mm) Teteron |
| **Terminals:** | Nickel Plated binding posts |
| **Grille:** | Aluminum |
| **Cutout:** | 7.25" x 14.25" (18.4 x 36.2 cm) |
| **Depth:** | 3.9" (9.9 cm) |
| **Dimensions:** | 9" x 15.75" (22.9 x 40 cm) |
| **Recommended Power:** | 10 - 100 watts |
| **Sensitivity:** | 90 dB SPL (2.83V @ 1m) |
| **Frequency Response:** | 58 Hz - 20 kHz ± 3 dB |
| **Frequency Range:** | 44 Hz - 20 kHz -6/+3 dB |
| **Frequency Adjustment:** | Treble switch |
| **Nominal Impedance:** | 4/5/6 ohms |
| **Unit Weight:** | 6.77 lbs (3.1 kg) |

| | |
|---|---|
| **Model:** | **7W**57LCR |
| **Description:** | Passive 2 way LCR Iso-Mount Loudspeaker |
| **Woofers (2):** | 5.25" (13.3 cm) Woven Black Kevlar |
| **Tweeter:** | Pivoting 1" (25 mm) Aluminum/Magnesium Alloy |
| **Terminals:** | Gold Plated binding posts |
| **Grille:** | Aluminum |
| **Basket:** | Cast Aluminum |
| **Cutout:** | 7.25" x 14.25" (18.4 x 36.2 cm) |
| **Depth:** | 3.9" (9.9 cm) |
| **Dimensions:** | 9" x 15.75" (22.9 x 40 cm) |
| **Recommended Power:** | 10 - 150 watts |
| **Sensitivity:** | 90 dB SPL (2.83V @ 1m) |
| **Frequency Response:** | 52 Hz - 27 kHz ± 3 dB |
| **Frequency Range:** | 41 Hz - 27 kHz -6/+3 dB |
| **Frequency Adjustment:** | Treble switch |
| **Nominal Impedance:** | 4/5/6 ohms |
| **Unit Weight:** | 7.56 lbs (3.4 kg) |

All Russound Acclaim 7 Series Speaker products have a Limited Lifetime Warranty against defects in materials and workmanship. Proof of Purchase must accompany all claims. During the warranty period Russound will replace any defective part and correct any defect in workmanship without charge for either parts or labor.

Russound may replace returned speakers with a product of equal value and performance. In such cases, some modifications to the mounting may be necessary and are not Russound's responsibility.

For this warranty to apply, the unit must be installed and used according to its written instructions. If necessary, repairs must be performed by Russound. The unit must be returned to Russound at the owner's expense and with prior written permission. Accidental damage and shipping damage are not considered defects, nor is damage resulting from abuse or from servicing performed by an agency or person not specifically authorized in writing by Russound.

Russound products are sold only through authorized Dealers and Distributors to ensure that customers obtain proper support and service. Russound reserves the right to limit the warranty of products purchased from an unauthorized dealer or other source, including retailers, mail order sellers, and online sellers, to ninety (90) days from the date of purchase.

Damage to or destruction of components due to application of excessive power voids the warranty on those parts. In these cases, repairs will be made on the basis of the retail value of the parts and labor. To return for repairs, the unit must be shipped to Russound at the owner's expense, along with a note explaining the nature of service required. Be sure to pack the speaker(s) in a corrugated container with at least 3" (7.6 cm) of resilient material to protect the unit from damage in transit.

Before returning the unit for repair, call Russound at 603.659.5170 for a Return Authorization number. Write this number on the shipping label and ship to:

**Russound**
ATTN: Service
5 Forbes Road
Newmarket, NH 03857

This Warranty Does Not Cover:

- Damage caused by abuse, accident, misuse, negligence, or improper operation (installation).
- Products that have been altered or modified.
- Any product whose identifying number or decal, serial #, etc. has been altered, defaced or removed.
- Normal wear and maintenance.

Due to our continual efforts to improve product quality as new technology and techniques become available, Russound/FMP, Inc. reserves the right to revise speaker systems specifications without notice.

Russound®

# Acclaim™ 7 Series

## In-wall Iso-Mount™ LCR Loudspeaker
## Installation Manual

**Models: 7W55LCR - 7W57LCR**

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